

What is claimed is:

1. A toy comprising:
a body;
5 a motor within the body;
an appendage coupled to the body of the toy and actuated by the motor to move along
a first path;
a tail device coupled to the body of the toy and actuated by the motor to move along a
second path; and
10 a neck device coupled to the body of the toy and actuated by the motor to move along
a third path.
2. The toy of claim 1 in which the movement of the neck device, the tail device,
and the appendage occurs simultaneously.
- 15 3. The toy of claim 1 further comprising a drive shaft that couples the motor to
the appendage.
4. The toy of claim 3 further comprising a cam that receives the drive shaft such
20 that rotation of the drive shaft rotates the cam.
5. The toy of claim 4 wherein an eccentric rod to which the appendage connects
extends from the cam.
- 25 6. The toy of claim 5 further comprising a pivot gear coupled to the body of the
toy and including a post that couples to a slot within the appendage,
wherein gear teeth that mesh with gear teeth of the pivot gear extend from the cam
such that rotation of the cam causes rotation of the pivot gear, which causes the appendage to
move along the first path.
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7. The toy of claim 5 further comprising a linkage rod coupled to the body of the toy and to a slot within the appendage, wherein rotation of the cam causes the appendage to move along the first path.

5 8. The toy of claim 3 wherein the drive shaft couples the motor to the tail device.

9. The toy of claim 8 further comprising a cam that receives the drive shaft such that rotation of the drive shaft rotates the cam.

10 10. The toy of claim 9 further comprising a connector piece within the body that connects to the tail device and couples to the cam such that rotation of the cam oscillates the connector piece.

11. The toy of claim 10 wherein the cam defines a groove that receives a shaft of
15 the connector piece.

12. The toy of claim 10 wherein the connector piece connects to a lower piece of the tail device to cause the tail device to oscillate about a tail axis as the connector piece oscillates due to rotation of the cam.

20 13. The toy of claim 12 wherein the second path of movement has the appearance of a wagging tail.

14. The toy of claim 3 wherein the drive shaft couples the motor to the neck
25 device.

15. The toy of claim 14 further comprising a head connected to the neck device.

16. The toy of claim 14 wherein the neck device includes a hinge attached to the
30 body such that the neck device is configured to rotate about the hinge as the neck device moves along the third path.

17. The toy of claim 16 further comprising a follower attached to the neck device and coupled to the drive shaft such that rotation of the drive shaft moves the follower in a periodic pattern and causes the neck device to move along the third path.

5 18. The toy of claim 1 further comprising:
a controller within the body and coupled to the motor; and
a sensor connected to send a signal to the controller;
wherein the controller causes the motor to operate in response to a signal from the
sensor.

10 19. The toy of claim 1 further comprising another appendage shaped like the
appendage and coupled to the body of the toy.

15 20. The toy of claim 19 wherein each of the appendages is positioned such that
ends of the appendages move in non-circular paths that are aligned with each other.

21. The toy of claim 1 wherein movement along the first path includes movement
of an end of the appendage along a non-circular path.

20 22. The toy of claim 1 further comprising a flexible skin surrounding the body of
the toy.

25 23. The toy of claim 22 wherein the flexible skin includes pile that resembles an
animal's coat.

24. The toy of claim 22 wherein the flexible skin surrounds the appendage of the
toy and moves as the appendage moves.

30 25. A toy comprising:
a body;
a motor within the body;

a first extension coupled to the body of the toy and actuated by the motor to rotate about a first axis;

a second extension coupled to the body of the toy and actuated by the motor to rotate about a second axis that is perpendicular with the first axis; and

5 a third extension coupled to the body of the toy and actuated by the motor to rotate about a third axis that is parallel with the first axis.

10 26. The toy of claim 25 in which the rotation of the first, second, and third extensions occurs simultaneously.

27. The toy of claim 25 further comprising a drive shaft that couples the motor to the first extension.

15 28. The toy of claim 27 further comprising a cam that receives the drive shaft such that rotation of the drive shaft rotates the cam.

29. The toy of claim 28 wherein the cam includes an eccentric rod to which the first extension connects.

20 30. The toy of claim 27 wherein the drive shaft couples the motor to the second extension.

25 31. The toy of claim 30 further comprising a cam that receives the drive shaft such that rotation of the drive shaft rotates the cam.

32. The toy of claim 31 further comprising a connector piece within the body that connects to the second extension and couples to the cam such that rotation of the cam oscillates the connector piece.

30 33. The toy of claim 32 wherein the cam defines a groove that receives a shaft of the connector piece.

34. The toy of claim 32 wherein the connector piece connects to a lower piece of the second extension to cause the second extension to oscillate about the second axis as the connector piece oscillates due to rotation of the cam.

5 35. The toy of claim 27 wherein the drive shaft couples the motor to the third extension.

36. The toy of claim 35 wherein the third extension includes a hinge attached to the body, the hinge defining the third axis.

10 37. The toy of claim 36 further comprising a follower attached to the third extension and coupled to the drive shaft such that rotation of the drive shaft moves the follower in a periodic pattern and causes the third extension to rotate about the third axis.

15 38. The toy of claim 25 wherein rotation of the first extension about the first axis causes movement of an end of the first extension along a non-circular path.

39. A toy comprising:
a body;
20 a driving device within the body, the driving device including a drive shaft driven by a motor;
a first extension coupled to a rotating device positioned on the drive shaft to rotate about a first axis; and
a second extension coupled to the rotating device positioned on the drive shaft to
25 rotate about a second axis that is perpendicular to the first axis.

40. The toy of claim 39 further comprising a third extension coupled to a second rotating device positioned on the drive shaft to rotate about a third axis that is parallel with the first axis.

30 41. The toy of claim 39 in which the rotation of the first and second extensions occurs simultaneously.

42. The toy of claim 39 in which the first extension couples to an eccentric rod on a first surface of the rotating device.

5 43. The toy of claim 42 further comprising a connector piece within the body that connects to the second extension and couples to the rotating device such that as the rotating device rotates, the connector piece oscillates.

10 44. The toy of claim 43 wherein the rotating device defines a groove on a second surface of the rotating device, the groove receiving a shaft of the connector piece.

15 45. The toy of claim 43 wherein the connector piece connects to a lower piece of the second extension to cause the second extension to oscillate about the second axis as the connector piece oscillates due to rotation of the rotating device.

 46. The toy of claim 45 wherein the rotation of the second extension has the appearance of a wagging tail.